

Title (en)

Torque variation absorbing device.

Title (de)

Torsionsschwankungen aufnehmende Vorrichtung.

Title (fr)

Dispositif d'absorption de variations de couple.

Publication

EP 0170950 A1 19860212 (EN)

Application

EP 85109006 A 19850718

Priority

- JP 10829184 U 19840719
- JP 10829284 U 19840719
- JP 10829384 U 19840719

Abstract (en)

The torque variation absorbing device comprises a driving plate (2), a flywheel (6), and a spring mechanism (12), a damping and torque limiting mechanism (15) and a hysteresis mechanism (18) installed between the driving plate (2) and the flywheel (6). The flywheel (6) is divided into a flywheel body (6a) and a driven plate (6b) which are connected together by a bolt (10) screwed into a bolt hole (23) in the flywheel body (6a) and the driven plate (6b). The bolt hole (23) provided in the driven plate (6b) extends through the driven plate (6b) up to a sliding friction plane between the hysteresis mechanism (18) and the driven plate (6b). The dust generated by the friction of the hysteresis mechanism (18) can be collected into the bolt hole (23).

IPC 1-7

F16F 15/12; **F16D 13/70**

IPC 8 full level

F16D 47/00 (2006.01); **F16F 15/131** (2006.01)

CPC (source: EP US)

F16D 47/00 (2013.01 - EP US); **F16F 15/13164** (2013.01 - EP US)

Citation (search report)

- [X] GB 2000257 A 19790104 - TOYOTA MOTOR CO LTD, et al
- [X] DE 2926012 A1 19801002 - TOYOTA MOTOR CO LTD
- [A] US 4351168 A 19820928 - PRINCE GEORGE T, et al
- [XP] AUTOMOTIVE ENGINEERING, vol. 93, no. 1, January 1985, page 85, Dallas, Texas, US; J.YAMAGUCHI: "Flywheel damper reduces low speed diesel noise and vibrations"
- [AD] PATENTS ABSTRACTS OF JAPAN, vol. 4, no. 53 (M-8)[535], 19th April 1980, page 63 M 8; & JP - A - 55 20 930 (AISHIN SEIKI K.K.) 14-02-19890

Cited by

DE3705160A1; EP0294049A3; FR2687442A1; FR2604502A1; EP0282060A3; FR2597416A1; DE3928065C3; US4892008A; FR2609132A1; EP0308829A3; FR2639691A1; DE3628773A1; DE3628773C2; FR2593870A1; DE3701444A1; FR2594916A1; DE4127439A1; FR2637665A1; EP0258112A1; FR2605695A2; US4904226A; DE3624738A1; FR2587775A1

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DOCDB simple family (application)

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